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(54) Title: WINDOW LIFT MECHANISM

(57) Abstract: A dual rack and pinion system is provided for a window lift mechanism. The window lift mechanism includes improved window brackets for simple mounting to a window. A modular frame design is provided to improve assembly of the window lift mechanism into the door of a vehicle. An improved assembly method is provided for the dual rack and pinion system. The system is also provided with a smart motor and incorporates resilient shock absorbers in the dual rack and pinion gear train to allow more time for the smart motor to detect and react to an obstruction in the window. The window lift mechanism includes a support bracket mounted to the window and a motor supported on a support bracket, wherein the support bracket permits axial and rotational movement of the window relative to the support bracket.



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